

<b>Notice of Allowability</b>	Application No.	Applicant(s)
	10/797,627	KOBAYASHI, HIDENORI
	Examiner Rajnikant B. Patel	Art Unit 2838

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 3/10/04.
2.  The allowed claim(s) is/are 1-4.
3.  The drawings filed on 28 July 2004 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some\*    c)  None    of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of
 Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 3/10/04 and 4/7/05
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

*Rajnikant B. Patel*  
RAJNIKANT B. PATEL  
PRIMARY EXAMINER

**DETAILED ACTION**

***Allowable Subject Matter***

1. Claims 1-4 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Applicant's invention claims a power system, causes no variation in output voltage during switching from a linear regulator to a DC-DC converter. The power system switches off a drive circuit of a DC-DC converter and supplies voltage to a load from a linear regulator if the load is light, while the power system halts voltage supply to the load from the linear regulator and switches the drive circuit of the DC-DC converter on if the load is heavy. During a set period of time after the load changes from light to heavy, the linear regulator continues to supply voltage to the load while the DC-DC converter supplies a pseudo feedback signal to a control circuit in place of a feedback signal, with the drive circuit left off to control the time ratio at switching elements and, thus minimizing output voltage variations. A power system is provided that outputs voltage to a load by switching between power devices. The power system comprises an inductor, switching elements for supplying input voltage to said load via said inductor, a drive circuit that generates a drive signal for complementarily performing on/off control of said switching elements at a predetermined time ratio, and a control circuit that switches said drive circuit on or off and that controls the time ratio at said switching

elements by a feedback signal based on said output voltage to the load, the power system being provided with a DC-DC converter for controlling said output voltage at a predetermined level, a pseudo-feedback-signal generating circuit that generates a pseudo feedback signal in synchronization with said drive signal of said DC-DC converter, and a series regulator that supplies said input voltage to the load after stepping down said input voltage. None of the cited art overcomes the claimed limitation of the instant application, since claims are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rajnikant B. Patel whose telephone number is 571-272-2082. The examiner can normally be reached on 6.30-5.00; m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Micheal Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Rajnikant B Patel*  
Rajnikant B Patel  
Primary Examiner  
Art Unit 2838

\*\*\*